संख्या-4/2026/प्र-2-22/दस-2026/1960262/2026

प्रेषक,

दीपक कुमार,

अपर मुख्य सचिव,

उत्तर प्रदेश शासन

सेवा में,

1. समस्त अपर मुख्य सचिव/प्रमुख सचिव/सचिव उ0प्र0 शासन।
2. समस्त विभागाध्यक्ष/प्रमुख कार्यालयध्यक्ष, उत्तर प्रदेश
3. समस्त मण्डलायुक्त/जिलाधिकारी, उ0प्र0।
4. समस्त प्रबन्ध निदेशक/निदेशक, राजकीय निर्माण एजेन्सी।
5. निदेशक, आई0आई0टी0, कानपुर/आई0आई0टी0 बी0एच0यू0/आई0आई0टी0 दिल्ली/आई0आई0 टी0 रुड़की।
6. कुलपति, एकेटीयू, लखनऊ/एच.बी0टी0यू0, कानपुर/एएमयू , अलीगढ़/ एमएमएमयूटी, गोरखपुर।
7. निदेशक /प्रधानाचार्य, एमएनआईटी प्रयागराज/ केएनआईटी, सुल्तानपुर/ बीआईईटी, झांसी/आईईटी लखनऊ/राजकीय इंजीनियरिंग कॉलेज, बांदा/सोनभद्र/कन्नौज/प्रतापगढ़/ अम्बेडकर नगर/आजमगढ़/ मैनपुरी/ बिजनौर।

वित्त (सेवा) अनुभाग-2 लखनऊ: दिनांक: 07 मई, 2026

विषयः- विभिन्न मार्ग, सेतु, वाटर सप्लाई पाईपलाईन तथा सीवर पाईपलाईन निर्माण कार्यों की गुणवत्ता सुनिश्चित किये जाने हेतु थर्ड पार्टी क्वालिटी आडिट (TPQA) हेतु मानक संचालन प्रक्रिया के सम्बन्ध में।

महोदय,

प्रदेश में विभिन्न मार्ग, सेतु, वाटर सप्लाई पाईपलाईन तथा सीवर पाईपलाईन निर्माण कार्यों की गुणवत्ता सुनिश्चित किये जाने हेतु सम्बन्धित परियोजनाओं का थर्ड पार्टी क्वालिटी ऑडिट (TPQA) विभिन्न तकनीकी संस्थाओं से कराये जाने का निर्णय लिया गया है।

2- उपर्युक्त निर्णय के क्रम में प्रायोजनाओं हेतु थर्ड पार्टी क्वालिटी ऑडिट (TPQA) कराने हेतु विभिन्न तकनीकी संस्थाओं को प्रायोजनाओं की लागत के अनुसार मण्डलवार आवद्ध किये जाने हेतु मानक संचालन प्रक्रिया निम्नवत निर्धारित की गयी है-

अ- रू0 100.00 करोड़ से अधिक की प्रायोजना हेतु -

क्रम सं0	संस्थान	मण्डलवार परियोजनाएँ
1.	भारतीय प्रौद्योगिकी संस्थान, कानपुर (IIT Kanpur)	कानपुर, लखनऊ, बांदा, प्रयागराज, अयोध्या, एवं देवीपाटन
2.	भारतीय प्रौद्योगिकी संस्थान (बनारस हिंदू विश्वविद्यालय), वाराणसी (IIT BHU)	बस्ती, गोरखपुर, आजमगढ़, वाराणसी एवं मिर्जापुर
3.	भारतीय प्रौद्योगिकी संस्थान, दिल्ली (IIT Delhi)	मेरठ, अलीगढ़, झांसी, एवं आगरा
4.	भारतीय प्रौद्योगिकी संस्थान, रुड़की (IIT Roorkee)	सहारनपुर, मुरादाबाद एवं बरेली

यह आदेशांश इलेक्ट्रानिकली जारी किया गया है, अतः इस पर हस्ताक्षर की आवश्यकता नहीं है।
इस आदेशांश की प्रमाणिकता वेब पोर्टल http://shasanadesh.up.gov.in पे प्रमाणित की जा सकती है।

ब- रू0 25.00 करोड़ से 100.00 करोड़ तक की प्रायोजना हेतु -

क्रम सं0	संस्थान	मण्डलवार परियोजनाएँ
1.	मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान, प्रयागराज (MNIT Prayagraj)	प्रयागराज, लखनऊ, अयोध्या, वाराणसी, एवं मिर्जापुर
2.	अलीगढ़ मुस्लिम विश्वविद्यालय, अलीगढ़ (AMU Aligarh)	सहारनपुर, मुरादाबाद, मेरठ, अलीगढ़ एवं बरेली
3.	हरकोर्ट बटलर प्राविधिक विश्वविद्यालय कानपुर (HBTU Kanpur)	आगरा, कानपुर, झांसी एवं बांदा
4	मदन मोहन मालवीय प्रौद्योगिकी विश्वविद्यालय, गोरखपुर (MMMUT Gorakhpur)	गोरखपुर, आजमगढ़, देवीपाटन एवं बस्ती

स- रू0 25.00 करोड़ तक की प्रायोजना हेतु -

क्रम सं0	संस्थान	मण्डलवार परियोजनाएँ
1.	एकेटीयू लखनऊ/इंस्टीट्यूट ऑफ इन्जीनियरिंग एवं टेक्नालॉजी (IET) लखनऊ	लखनऊ
2.	राजकीय इंजीनियरिंग कॉलेज, बांदा (REC Banda)	बांदा
3.	राजकीय इंजीनियरिंग कॉलेज, सोनभद्र (REC Sonbhadra)	मिर्जापुर, वाराणसी
4.	कमला नेहरू प्रौद्योगिकी संस्थान, सुलतानपुर (KNIT Sultanpur)	अयोध्या, देवीपाटन
5.	राजकीय इंजीनियरिंग कॉलेज, कन्नौज (REC Kannauj)	कानपुर, बरेली
6.	बुंदेलखंड इंस्टीट्यूट ऑफ इंजीनियरिंग एंड टेक्नोलॉजी, झाँसी (BIET Jhansi)	झांसी
7.	राजकीय इंजीनियरिंग कॉलेज, प्रतापगढ़ (REC Pratapgarh)	प्रयागराज
8.	राजकीय इंजीनियरिंग कॉलेज, अम्बेडकर नगर (REC Ambedkarnagar)	बस्ती
9.	राजकीय इंजीनियरिंग कॉलेज, आजमगढ़ (REC Azamgarh)	आजमगढ़, गोरखपुर
10.	राजकीय इंजीनियरिंग कॉलेज, मैनपुरी (REC Mainpuri)	आगरा, अलीगढ़
11.	राजकीय इंजीनियरिंग कॉलेज, बिजनौर (REC Bijnor)	मुरादाबाद, मेरठ, सहारनपुर

नोटः- यदि किसी आबद्ध संस्थान द्वारा निर्धारित प्रक्रिया के अनुसार TPQA का कार्य किये जाने हेतु स्थायी रूप से असमर्थता व्यक्त की जाती है, तो निवेशन विभाग द्वारा पुनर्संभावोजन का सुविचारित प्रस्ताव वित्त विभाग को उपलब्ध कराया जायेगा।

- यदि किसी आबद्ध संस्थान द्वारा अपरिहार्य कारणों से TPQA सम्बन्धी कार्य करने में असमर्थता व्यक्त की जाती है, तो इस स्थिति में प्रशासनिक विभागों द्वारा उपर्युक्त आबद्ध संस्थानों में से किसी अन्य संस्थान से TPQA कराया जा सकता है।

यह कार्यालय इलेक्ट्रानिकली जारी किया गया है, अतः इस पर हस्ताक्षर की आवश्यकता नहीं है।
इस कार्यालय की प्रमाणिकता वेब पोर्टल http://shasanadesh.up.gov.in से प्रमाणित की जा सकती है।

3- प्रायोजना के TPQA सम्बन्धी कार्य करने हेतु प्रशासकीय विभाग द्वारा आबद्ध संस्थान के साथ एक MoU (मार्ग हेतु प्रारूप संलग्नक-1, वीयर सेतु हेतु प्रारूप संलग्नक-2, वाटर सप्लाई पाईपलाईन एवं सीवर पाईपलाईन हेतु प्रारूप संलग्नक-3) निष्पादित किया जायेगा। MoU के निष्पादन हेतु प्रशासकीय विभाग द्वारा विशेष सचिव स्तर से अन्यून अधिकारी को नोडल अधिकारी के रूप में नामित किया जायेगा। आबद्ध संस्थान द्वारा प्रत्येक प्रायोजना के TPQA हेतु विषय विशेषज्ञों की एक टीम का गठन करते हुए सम्बन्धित विवरण MoU के साथ प्रशासकीय विभाग को उपलब्ध कराया जायेगा।

4- प्रायोजना की निर्माण अवधि में TPQA हेतु आबद्ध संस्थान द्वारा प्रायोजना का न्यूनतम पाँच बार स्थलीय /भौतिक निरीक्षण कर निर्धारित प्रारूप पर निरीक्षण रिपोर्ट/आख्या (चेक लिस्ट मार्ग हेतु प्रारूप संलग्नक-4, सेतु हेतु प्रारूप संलग्नक-5, वाटर सप्लाई पाईपलाईन एवं सीवर पाईपलाईन हेतु प्रारूप संलग्नक-6) सम्बन्धित प्रशासकीय विभाग के नोडल अधिकारी को निरीक्षण के दिन से अधिकतम एक माह के अन्दर उपलब्ध करायी जायेगी। नोडल अधिकारी द्वारा विभाग के अपर मुख्य सचिव/प्रमुख सचिव/सचिव को TPQA रिपोर्ट अवलोकित करायी जायेगी।

5- तकनीकी रिपोर्ट का समुचित इम्प्लीमेन्टेशन कराये जाने का उत्तरदायित्व प्रशासकीय विभाग एवं कार्यदायी संस्था का होगा। इस सम्बन्ध में प्रशासकीय विभाग के अपर मुख्य सचिव/प्रमुख सचिव/सचिव स्तर पर एक अनुश्रवण समिति का गठन किया जाये, जिसमें कि उक्त तकनीकी रिपोर्ट का प्रभावी अनुपालन सुनिश्चित हो सके। Action Taken Report (ATR) तैयार कर प्रायोजना हेतु गठित अनुश्रवण समिति को उपलब्ध करायी जायेगी।

6- थर्ड पार्टी क्वालिटी ऑडिट (TPQA) के लिए प्रस्तावित उपर्युक्त व्यवस्था1/आबद्ध तकनीकी संस्थानों का Deletion एवं नये तकनीकी संस्थाओं के Addition हेतु आवश्यकतानुसार वार्षिक समीक्षा (Annual Review) की जायेगी। इस सम्बन्ध में TPQA हेतु निर्धारित उक्त व्यवस्था की वार्षिक समीक्षा हेतु नियोजन विभाग, उ0प्र0 शासन की एक समिति का गठन किया जाये।

7- प्रयोजना के थर्ड पार्टी क्वालिटी ऑडिट (TPQA) हेतु अनुमन्य GST रहित फीस की दर निम्नानुसार निर्धारित की जाती है:-

(I) मार्ग परियोजनाओं हेतु

क्रम सं0	प्रायोजना की स्वीकृति निर्माण लागत (जी0एस0टी0 रहित)	दर
अ-	रु0 50.00 करोड़ तक स्वीकृत निर्माण लागत की प्रायोजना हेतु	0.30 प्रतिशत

ब- रु0 50.00 करोड़ से अधिक स्वीकृत निर्माण लागत की प्रायोजना हेतु

क्रम सं0	प्रायोजना की स्वीकृति निर्माण लागत (जी0एस0टी0 रहित)	दर
1.	रु0 50.00 करोड़ तक लागत	0.30 प्रतिशत
2.	रु0 50.00 करोड़ से रु0 300.00 करोड़ तक	0.20 प्रतिशत
3.	रु0 300.00 करोड़ से रु0 500.00 करोड़ तक	0.15 प्रतिशत
4.	रु0 500.00 करोड़ से अधिक	0.10 प्रतिशत

उपरोक्त पर जी0एस0टी0 पृथक से देय होगी।

यह शासनादेश इलेक्ट्रानिकली जारी किया गया है, अतः इस पर हस्ताक्षर की आवश्यकता नहीं है।
इस शासनादेश की प्रमाणिकता वेब साइट http://shasanadesh.up.gov.in पे प्रमाणित की जा सकती है।

उल्लेखनीय है कि 60 मी0 से कम लम्बाई के सेतु , मार्ग में सम्मिलित माने जायेगें तथा TPQA हेतु मार्ग की दर लागू होगी। 60 मी0 से कम लम्बाई के सेतु का एकल कार्य होने पर भी TPQA हेतु मार्ग की दर लागू होगी।

उदाहरण स्वरूप यदि किसी प्रायोजना की निर्माण लागत रू0 600.00 करोड़ है, तो TPQA हेतु फीस की धनराशि का आंकलन निम्नानुसार किया जायेगा:-

क्रम सं0	प्रायोजना की स्वीकृति निर्माण लागत (जी0एस0टी0 रहित)	निर्माण लागत का अंश	दर	धनराशि
1.	रू0 50.00 करोड़ तक	रू0 50.00 करोड़	0.30 प्रतिशत	रू0 15.00 लाख
2.	रू0 50.00 करोड़ से रू0 300.00 करोड़ तक	रू0 250.00 करोड़	0.20 प्रतिशत	रू0 50.00 लाख
3.	रू0 300.00 करोड़ से रू0 500.00 करोड़ तक	रू0 200.00 करोड़	0.15 प्रतिशत	रू0 30.00 लाख
4.	रू0 500.00 करोड़ से रू0 600.00 करोड़ तक	रू0 100.00 करोड़	0.10 प्रतिशत	रू0 10.00 लाख
कुल धनराशि (जी0एस0टी0 रहित)				रू0 105.00 लाख

(ii) दीर्घ सेतु परियोजनाओं हेतु (60 मी0 अथवा उससे अधिक लम्बाई के)

क्रम सं0	प्रायोजना की स्वीकृति निर्माण लागत (जी0एस0टी0 रहित)	दर
अ-	रू0 50.00 करोड़ तक स्वीकृत निर्माण लागत की प्रायोजना हेतु	0.35 प्रतिशत

ब- रू0 50.00 करोड़ से अधिक स्वीकृत निर्माण लागत की प्रायोजना हेतु

क्रम सं0	प्रायोजना की स्वीकृति निर्माण लागत (जी0एस0टी0 रहित)	दर
1.	रू0 50.00 करोड़ तक लागत	0.35 प्रतिशत
2.	रू0 50.00 करोड़ से रू0 300.00 करोड़ तक	0.25 प्रतिशत
3.	रू0 300.00 करोड़ से रू0 500.00 करोड़ तक	0.20 प्रतिशत
4.	रू0 500.00 करोड़ से अधिक	0.10 प्रतिशत

उपरोक्त पर जी0एस0टी0 पृथक से देय होगी।

उदाहरण स्वरूप यदि किसी प्रायोजना की निर्माण लागत रू0 600.00 करोड़ है, तो TPQA हेतु फीस की धनराशि का आंकलन निम्नानुसार किया जायेगा:-

क्रम सं0	प्रायोजना की स्वीकृति निर्माण लागत (जी0एस0टी0 रहित)	निर्माण लागत का अंश	दर	धनराशि
1.	रू0 50.00 करोड़ तक	रू0 50.00 करोड़	0.35 प्रतिशत	रू0 17.50 लाख
2.	रू0 50.00 करोड़ से रू0 300.00 करोड़ तक	रू0 250.00 करोड़	0.25 प्रतिशत	रू0 62.50 लाख
3.	रू0 300.00 करोड़ से रू0 500.00 करोड़ तक	रू0 200.00 करोड़	0.20 प्रतिशत	रू0 40.00 लाख
4.	रू0 500.00 करोड़ से रू0 600.00 करोड़ तक	रू0 100.00 करोड़	0.10 प्रतिशत	रू0 10.00 लाख
कुल धनराशि (जी0एस0टी0 रहित)				रू0 130.00 लाख

यह आदेशात्मक इलेक्ट्रानिकली जारी किया गया है, अतः इस पर हस्ताक्षर की आवश्यकता नहीं है।
इस आदेशात्मक की प्रमाणिकता वेब पोर्टल http://greenbook.up.gov.in पे प्रमाणित की जा सकती है।

(iii) वाटर सप्लाई पाईपलाईन तथा सीवर पाईपलाईन परियोजनाओं हेतु

क्रम सं0	प्रायोजना की स्वीकृति निर्माण लागत (जी0एस0टी0 रहित)	दर
अ-	रू0 50.00 करोड़ तक स्वीकृत निर्माण लागत की प्रायोजना हेतु	0.30 प्रतिशत

ब- रू0 50.00 करोड़ से अधिक स्वीकृत निर्माण लागत की प्रायोजना हेतु

क्रम सं0	प्रायोजना की स्वीकृति निर्माण लागत (जी0एस0टी0 रहित)	दर
1.	रू0 50.00 करोड़ तक लागत	0.30 प्रतिशत
2.	रू0 50.00 करोड़ से रू0 300.00 करोड़ तक	0.20 प्रतिशत
3.	रू0 300.00 करोड़ से रू0 500.00 करोड़ तक	0.15 प्रतिशत
4.	रू0 500.00 करोड़ से अधिक	0.10 प्रतिशत

उपरोक्त पर जी0एस0टी0 पृथक से देय होगी।

उदाहरण स्वरूप यदि किसी प्रायोजना की निर्माण लागत रू0 600.00 करोड़ है, तो TPQA हेतु फीस की धनराशि का आंकलन निम्नानुसार किया जायेगा:-

क्रम सं0	प्रायोजना की स्वीकृति निर्माण लागत (जी0एस0टी0 रहित)	निर्माण लागत का अंश	दर	धनराशि
1.	रू0 50.00 करोड़ तक	रू0 50.00 करोड़	0.30 प्रतिशत	रू0 15.00 लाख
2.	रू0 50.00 करोड़ से रू0 300.00 करोड़ तक	रू0 250.00 करोड़	0.20 प्रतिशत	रू0 50.00 लाख
3.	रू0 300.00 करोड़ से रू0 500.00 करोड़ तक	रू0 200.00 करोड़	0.15 प्रतिशत	रू0 30.00 लाख
4.	रू0 500.00 करोड़ से रू0 600.00 करोड़ तक	रू0 100.00 करोड़	0.10 प्रतिशत	रू0 10.00 लाख
कुल धनराशि (जी0एस0टी0 रहित)				रू0 105.00 लाख

नोट- उपर्युक्त धनराशि में तकनीकी संस्थानों द्वारा थर्ड पार्टी क्वालिटी ऑडिट (TPQA) हेतु किये जाने वाले समस्त व्यय (टीम की यात्रा, टीम का प्रवास, टेस्टिंग सैम्पल, टेस्टिंग चार्ज की ढुलाई इत्यादि) सम्मिलित होंगे।

8- प्रायोजना हेतु स्वीकृत धनराशि में से थर्ड पार्टी क्वालिटी ऑडिट (TPQA) हेतु निर्धारित धनराशि सम्बन्धित कोषागार के माध्यम से आबद्ध संस्थान के बैंक खाते में समय-समय पर स्टेजवार नियमानुसार भुगतान किया जाये। इस हेतु प्रत्येक स्टेज के उपरान्त संस्थान द्वारा प्रशासनिक विभाग के नोडल अधिकारी को इनवॉइस उपलब्ध करायी जायेगी।

9- संबंधित प्रशासकीय विभाग एवं चयनित संस्था द्वारा थर्ड पार्टी क्वालिटी कन्ट्रोल (TPQC)/थर्ड पार्टी क्वालिटी ऑडिट (TPQA) के सम्बन्ध में समय-समय पर निर्गत विभिन्न शासनादेशों/नियमों का अनुपालन सुनिश्चित किया जायेगा। साथ ही नियोजन अनुभाग-1 द्वारा निर्गत शासनादेश सं0 100/2025/492/35-1-2025/457/सो0मा0प्र0/2017 दिनांक 04.06.2025 के क्रम में थर्ड पार्टी क्वालिटी कन्ट्रोल (TPQC) रिपोर्ट को सीएमआईएस पोर्टल पर अपलोड कराये जाने के सम्बन्ध में निर्गत व्यवस्था का पूर्ण अनुपालन भी प्रशासकीय विभाग द्वारा सुनिश्चित कराया जायेगा।

10- उपर्युक्त निर्देशों का अनुपालन सभी स्वीकृत की जाने वाली परियोजनाओं पर भी कड़ाई से सुनिश्चित किया जाये।

भवदीय,

दीपक कुमार

अपर मुख्य सचिव

यह शासनादेश इलेक्ट्रानिकली जारी किया गया है, अतः इस पर हस्ताक्षर की आवश्यकता नहीं है।
इस शासनादेश की प्रमाणिकता वेब साइट http://shasanadesh.up.gov.in पे प्रमाणित की जा सकती है।

संख्या एवं दिनांक तदैव।

प्रतिलिपि निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित-

1. मुख्य स्टाफ आफिसर/स्टाफ आफिसर, मुख्य सचिव, उ0प्र0 शासन।
2. निजी सचिव, अपर मुख्य सचिव, मा0 मुख्यमंत्री जी, उ0प्र0 शासन।
3. निदेशक, कोषागार, उ0प्र0 जवाहर भवन, लखनऊ।
4. मुख्य अभियन्ता, तकनीकी सेल, ई0पी0सी0 मिशन, नियोजन विभाग, उ0प्र0।
5. गार्ड फाईल।

आज्ञा से
महेन्द्र कुमार भट्ट
विशेष सचिव

यह शासनादेश इलेक्ट्रानिकली जारी किया गया है, अतः इस पर हस्ताक्षर की आवश्यकता नहीं है।
इस शासनादेश की प्रमाणिकता वेब पोर्टल http://shasanadesh.up.gov.in पे प्रमाणित की जा सकती है।

संलग्नक-1

(For Road Projects)

Memorandum of Understanding

between

Department of.....,GoUP

And

(Name of TPQA Institute)

This Memorandum of Understanding (MoU) is entered into on this __day of _____, 2026, by and between:

[Name of Department.....], having its office at [Full Address], hereinafter referred to as the *"Department"*, which expression shall, unless excluded by or repugnant to the context, mean and include its successors and assigns, **AND [Name of Engineering College/Institute]**, having its campus at [Full Address], hereinafter referred to as the *"Institute"*, which expression shall, unless excluded by or repugnant to the context, mean and include its successors and assigns.

Collectively referred to as the *"Parties"*.

Introduction :

Third Party Quality Audit (TPQA) is a review by an independent entity (A separate organization / group of experts) of how well the key areas of a project quality plan are being followed and whether it's effective in getting the quality results originally envisaged.

Department of....., GoUP intends that periodic Quality Auditing is carried out by a third-party to enable the Department to assess critically the in-place quality of the project. The audit will be comprehensive, and include examination of the quality of work executed and services carried out, compliance of works with the technical specifications and standards prescribed in the contract, compliance of social and environmental safeguards, compliance of safety requirements and furnishing of recommendations for improvements in the quality of the project and project implementation as a whole.

Department of ....., GoUP intends that Indian Institute of Technology(IIT), .../National Institute of Technology(NIT), Prayagraj /Rajkiya Engineering College/ Govt Engineering Colleges Organizations hereinafter to be called Third Party Quality Audit (TPQA) to assist it in auditing the quality of the project. The TPQA shall include a team of qualified and experienced technical and other experts to be able to satisfactorily fulfill the objectives of the Audit.

The Collaboration will be established within the principles set out in the following sections :

1. Objective:

The objective of this MoU is to establish a formal collaboration between the Department and the Institute for conducting **Third Party Quality Audit (TPQA)** of civil and MEP works executed under the **[name of the project]** in order to

(i) Verify as may be mutually agreed from time to time whether the quality of the Works is consistent with contract conditions as well as technical specifications including compliance with the social and environmental safeguards, occupational health and safety requirements by independent assessment/audit of quality of works at various stages of construction, and

(ii) Identify and recommend, without obligation, potential improvements to achieve the quality, subject to mutual agreement on scope and feasibility.

2. Functions of the Parties:

Role of Institute(TPQA): The TPQA shall endeavor to clearly understand the scope and complexities of the project and where mutually agreed, shall visit the project site to acquaint themselves with the ground conditions. The TPQA may undertake, but is not limited to the following tasks subject to the prevailing norms of the Institute and as mutually agreed upon with the Department.

(i) The TPQA may verify the adequacy of the Contractor's field laboratories, plant, equipment and personnel and general fitness for purpose of such inputs, including the accuracy / calibration of testing equipment used for measurement.

(ii) The TPQA may review the Contractor's working practices such as material receipt, storing, consumption procedures, material testing, construction methods, and documentation system to assess whether sound practices are being employed to achieve quality.

(iii) The TPQA may review the degree of quality control exercised during the construction by the Contractor (tests, number, frequency, approach & timing etc.) and documentation (QC registers, test reports, observations of supervisory staff, compliance etc.) to assess whether the same is compliant to specified technical specifications.

(iv) The TPQA may review the Contractor's plan and actual practices with respect to social and environmental safeguards, safety measures and working conditions.

(v) The TPQA may verify whether the quality of work is in accordance with contract specifications. The TPQA may prepare Inspection Test Plans (ITPs), to be approved by the Department that elaborates the frequency and method for performing field inspections. The formats to be used in this assessment shall be provided in the Inspection Report.

(vii) The TPQA may audit and assess the quality control practices and documentation thereof.

(viii) The TPQA may under take inspections on a sample basis with prior intimation and approval of the Engineer-in-Charge to verify actual compliance with previously identified quality enhancement measures and recommendations.

Within a period of 01 month from the date of inspection by TQPA team, the report shall be furnished to the Competent Authority (Nodal Authority) of the Administrative Department.

Role of Department:

The Department shall:

- Facilitate access to construction sites and project documents with help of executing agency(UPPWD/UPRNN/CD&S)
- Provide all relevant project drawings, specifications, BOQ, DPRs, etc.
- Coordinate with the executing contractor/consultant for necessary cooperation.
- Remunerate the Institution as per mutually agreed terms for TPQA services rendered.
- Consider TPQA reports for corrective actions during project execution.

3. Conflict of Interest:

The faculty members and personnel appointed specifically for this project shall at all times act in the best interests of the "Department" without regard to future work prospects, and shall strictly avoid conflict of interest with other assignments or their own personal interests. If during the period of this MoU, a conflict of interest arises for any reasons, the appointed faculty or personnel shall promptly disclose the same to the Department and seek its guidance.

3.1 Faculty not to benefit from Commissions, Discounts, etc.:

(a) The payment made to the Institute for services rendered under this MoU shall constitute the Institute's

sole payment in connection with this MoU and the Institute shall not accept for its own benefit any trade commission, discount or similar payment in connection with activities pursuant to this MoU or in the discharge of its obligations hereunder, and the Institute shall use its best efforts to ensure that the Personnel and agents similarly shall not receive any such additional payment.

(b) Further more, if the Institute, as part of the Services, has the responsibility of advising the "Department" on the procurement of goods, works or services, the Institute shall comply with the Department's applicable procurement guidelines, and shall at all times exercise such responsibility in the best interest of the "Department". Any discounts or commissions obtained by the institute in the exercise of such procurement responsibility shall be for the account of the Department unless otherwise mutually agreed in writing by the Parties.

3.2 Institute and Affiliates Not to Engage in Certain Activities:

The Institute agrees that, during and under the term of this MoU and after its termination, the faculty members specifically appointed by the Institute to provide the Services under this MoU and any entity affiliated with the Institute, shall be disqualified from providing goods, works or services (other than consulting services) resulting from or directly related to the Institute's Services for the preparation or implementation of the project.

3.3 Prohibition of Conflicting Activities:

The faculty members appointed by the Institute to perform the Services under this MoU, shall not engage, and the Institute shall use reasonable efforts to ensure that such faculty members do not engage, either directly or indirectly, in any business or professional activities that would conflict with the activities assigned to them under this MoU.

4. **Confidentiality**: Except with the prior written consent of the "Department", the Institute and the Personnel shall not at any time communicate to any person or entity any confidential information acquired in the course of the Services, nor shall the Institute and its Personnel make public the recommendations formulated in the course of, or as a result of, the Services.

5. **Payments to the Institute** : The Department shall provide honorarium/professional fees as mutually agreed upon based on the scope, size, and complexity of the project(Annexure attached) with maximum allowable fees as:

(A)For the Road projects costing less than Rs 50.00 Cr----------0.30% of the Cost of Project

(B) For the road projects costing Rs 50.00 Cr to 300 Cr ----------0.30% of Rs 50.00 Cr + 0.20% of (Cost of project in Cr - Rs 50.00 Cr)

(C) For the road projects costing Rs 300.00 Cr to 500 Cr--0.30% of Rs 50.00 Cr + 0.20% of (300 Cr - Rs 50.00 Cr) + 0.15% of (cost of project in Cr – 300 Cr.)

(D) For the road projects costing above 500 Cr -- 0.30% of Rs 50.00 Cr + 0.20% of (300 Cr - Rs 50.00 Cr) + 0.15% (500 Cr – 300 Cr.) + 0.10% of (cost of project in Cr – 500 Cr.)

(a) The Institute shall raise an invoice when the payment becomes due as per the agreed milestone-based terms outlined in the MoU or work.

(b) Once a milestone is completed, the TPQA shall submit the requisite deliverables as specified in this MoU. The Department shall release the requisite payment upon acceptance of the deliverables. However, if the department fails to intimate acceptance of the deliverables or its objections thereto, within 30 days of receipt of it, the department shall release the payment to the institute without further delay.

(c) Final Payment : The final payment shall be made only after the final report and a final statement, identified as such, shall have been submitted by the institute and approved as satisfactory by the "Department". The Services shall be deemed completed and finally accepted by the "Department" and the final report and final statement shall be deemed approved by the "Department" as satisfactory ninety (90) calendar days after receipt of the final report and final statement by the "Department " unless the "Department", within such ninety (90) day period, gives written notice to the Institute specifying in detail deficiencies in the Services, the final report or final statement. The Institute shall thereupon promptly make any necessary corrections, and there after the foregoing process shall be repeated. Any amount, which the "Department" has paid or caused to be paid in accordance with this Clause in excess of the amounts actually payable in accordance with the provisions of this MoU, shall be reimbursed by the Institute to the "Department" within thirty (30) days after receipt by the Institute of notice thereof. Any such claim by the "Department" for reimbursement must be made within Nine (09) calendar months after receipt by the "Department" of a final report and a final statement approved by the "Department" in accordance with the above.

(d) If the deliverables submitted by the institute are found not to be within the agreed scope of work, the Department shall provide a written response clearly stating the specific reasons for non-acceptance within fifteen (15) working days of receipt of the deliverables. The Institute shall be provided an opportunity to clarify or rectify the deliverable within a mutually agreed-upon timeframe.

Until such reasons are formally communicated, the deliverables shall be deemed under review, and payment shall not be unreasonably withheld. Where feasible, pro-rata or milestone-based payments may be released for partially acceptable work.

This provision shall not prejudice the Department's right to levy any liquidated damages, where applicable, in accordance with the terms of this Agreement. Upon resubmission and acceptance of the revised deliverables, the pending payment shall be released promptly.

(h) In case of early termination of the MoU, the payment shall be made to the institute in accordance with the following terms, through mutual consultation and agreement:

(i) Assessment should be made about work done from the previous milestone (s), for which the payment is made or to be made till the date of the termination. The institute shall provide the details of persons who reasonably worked during this period with supporting documents. Based on such details, the remuneration shall be calculated based on the man month rate as specified.

(ii) A reasonable assessment of the reimbursable and miscellaneous expenses shall be made based on details furnished by the institute in this regard with supporting documents and based on the assessment of the work done and the respective rates as provided. Wherever such an assessment is difficult, the rates should be arrived at by calculating the amount on pro-rata basis. The total amount payable shall be the amount calculated as per (i) and (ii) above plus any applicable tax.

6. **Dispute Resolution:**

In Case, there be a dispute relating to any aspect of the TPQA, all the parties will resolve the dispute in a spirit of mutual respect and shared responsibility, failing which, the unresolved difference or disputes shall be referred to the arbitration by a distinguished authority agreed mutually by all parties and decision by that authority shall be final and binding.

7. **Force Majeure**

(a) For the purposes of this MoU, "Force Majeure" means an event which is beyond the reasonable control of a Party, is not foreseeable, is unavoidable and not brought about by or at the instance of the Party claiming to be affected by such events and which has caused the non-performance or delay in performance, and which makes a Party's performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible in the circumstances, and includes, but is not limited to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood or other extreme adverse weather conditions, strikes, lockouts or other industrial action (except where such strikes, lockouts or other industrial action are within the power of the Party invoking Force Majeure to prevent), confiscation or any other action by Government agencies.

(b) Force Majeure shall not include (i) any event which is caused by the negligence or intentional action of a Party or such party's agents or employees, nor (ii) any event which a diligent Party could reasonably have been expected both to take into account at the time of the conclusion of this MoU, and avoid or overcome in the carrying out of its obligations here under.

(c) Force Majeure shall not include insufficiency of funds or inability to make any payment required hereunder.

8. **Duration and Termination**

This MoU shall remain in force for a period of ___years from the date of signing, or until the completion of the said construction project, whichever is earlier. Either party may terminate this MoU with a written notice of 30 days, citing valid reasons.

9. General Provisions

This MoU does not constitute a legal partnership, agency, or joint venture.

Disputes, if any, shall be resolved amicably; otherwise, jurisdiction shall lie with courts located at .....

Any amendment to this MoU shall be in writing and signed by both parties.

Neither Party, nor any of their affiliates nor their or their affiliates respective directors, officers, employees, subcontractors or agents shall be liable to the other Party for any special, incidental, indirect or consequential damages (including, but not limited to, contract, negligence and tort liability) in connection with or arising out of this MoU.

Any Information, Products, Materials, Services, Intellectual Property, Other Property or Rights, granted or provided or generated by **[Name of Engineering College/Institute]** pursuant to this MoU are on an As Is Where Is basis.

[Name of Engineering College/Institute] makes no warranties of any kind either express or implied, to the Department or any third party, as to any matter including, but not limited to, warranty of fitness for

particular purpose, or merchantability, exclusivity or results obtained from use.

IN WITNESS WHEREOF, the undersigned have executed this MoU on the date mentioned above:

Witness 1

Witness 2

- **For [Name of Department]**
  Name:
  Designation:
  Signature:
  Date:
  Seal:

- **For [Name of Engineering College]**
  Name:
  Designation:
  Signature:
  Date:
  Seal:

CURRICULUM VITAE (CV) FOR PROPOSED PROFESSIONAL STAFF

1. Proposed Position:

2. Name of Institute:

3.

4. Name of Staff: [Insert full name]:

5. Date of Birth:

6. Nationality:

7. Education:
[Indicate college/university and other specialized education of Faculty, giving names of institutions, degrees obtained, and dates of obtainment]:

8. Membership of Professional Associations:

9. Other Training:

10. Work Experience:
[List of work where Faculty has worked in the last ten years]:

11. Languages [For each language indicate proficiency: good, fair, or poor in speaking, reading, and writing]:

12. Employment Record:
[Starting with present position, list in reverse order every employment held by Faculty member since graduation, giving for each employment (see format here below): dates of employment, name of employing organization, positions held.]:

From [Year]: To Year:

Employer: Positions held:

13. Detailed Tasks Assigned
[List all tasks to be performed under this Assignment/job]

14. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned [Among the Assignment/jobs in which the staff has been involved, indicate the following information for those Assignment/jobs that best illustrate staff capability to handle the tasks listed under point 12.]

Name of Assignment/job or project:
Year:
Location:
Employer:
Main project features:
Positions held:
Activities performed:

15. Certification: I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.

Date: [Signature of staff member or authorized representative of the staff]
Place:

[Full name of authorized representative]:

संलग्नक-2

{For Major Bridge (60 m. or above length) Projects}

Memorandum of Understanding

between

Department of.....,GoUP

And

(Name of TPQA Institute)

This Memorandum of Understanding (MoU) is entered into on this __day of _____, 2026, by and between:

[Name of Department.....], having its office at [Full Address], hereinafter referred to as the *"Department"*, which expression shall, unless excluded by or repugnant to the context, mean and include its successors and assigns. **AND [Name of Engineering College/Institute]**, having its campus at [Full Address], hereinafter referred to as the *"Institute"*, which expression shall, unless excluded by or repugnant to the context, mean and include its successors and assigns.

Collectively referred to as the *"Parties"*.

Introduction :

Third Party Quality Audit (TPQA) is a review by an independent entity (A separate organization / group of experts) of how well the key areas of a project quality plan are being followed and whether it's effective in getting the quality results originally envisaged.

Department of....., GoUP intends that periodic Quality Auditing is carried out by a third-party to enable the Department to assess critically the in-place quality of the project. The audit will be comprehensive, and include examination of the quality of work executed and services carried out, compliance of works with the technical specifications and standards prescribed in the contract, compliance of social and environmental safeguards, compliance of safety requirements and furnishing of recommendations for improvements in the quality of the project and project implementation as a whole.

Department of ....., GoUP intends that Indian Institute of Technology(IIT), .../National Institute of Technology(NIT), Prayagraj /Rajkiya Engineering College/ Govt Engineering Colleges Organizations hereinafter to be called Third Party Quality Audit (TPQA) to assist it in auditing the quality of the project. The TPQA shall include a team of qualified and experienced technical and other experts to be able to satisfactorily fulfill the objectives of the Audit.

The Collaboration will be established within the principles set out in the following sections :

1. **Objective:**

The objective of this MoU is to establish a formal collaboration between the Department and the Institute for conducting **Third Party Quality Audit (TPQA)** of civil and MEP works executed under the **[name of the project]** in order to

(i) Verify as may be mutually agreed from time to time whether the quality of the Works is consistent with contract conditions as well as technical specifications including compliance with the social and environmental safeguards, occupational health and safety requirements by independent assessment/audit of quality of works at various stages of construction, and

(ii) Identify and recommend, without obligation, potential improvements to achieve the quality, subject to mutual agreement on scope and feasibility.

2. Functions of the Parties:

Role of Institute(TPQA): The TPQA shall endeavor to clearly understand the scope and complexities of the project and where mutually agreed, shall visit the project site to acquaint themselves with the ground conditions. The TPQA may undertake, but is not limited to the following tasks subject to the prevailing norms of the Institute and as mutually agreed upon with the Department.

(i) The TPQA may verify the adequacy of the Contractor's field laboratories, plant, equipment and personnel and general fitness for purpose of such inputs, including the accuracy / calibration of testing equipment used for measurement.

(ii) The TPQA may review the Contractor's working practices such as material receipt, storing, consumption procedures, material testing, construction methods, and documentation system to assess whether sound practices are being employed to achieve quality.

(iii) The TPQA may review the degree of quality control exercised during the construction by the Contractor (tests, number, frequency, approach & timing etc.) and documentation (QC registers, test reports, observations of supervisory staff, compliance etc.) to assess whether the same is compliant to specified technical specifications.

(iv) The TPQA may review the Contractor's plan and actual practices with respect to social and environmental safeguards, safety measures and working conditions.

(v) The TPQA may verify whether the quality of work is in accordance with contract specifications. The TPQA may prepare Inspection Test Plans (ITPs), to be approved by the Department that elaborates the frequency and method for performing field inspections. The formats to be used in this assessment shall be provided in the Inspection Report.

(vii) The TPQA may audit and assess the quality control practices and documentation thereof.

(viii) The TPQA may under take inspections on a sample basis with prior intimation and approval of the Engineer-in-Charge to verify actual compliance with previously identified quality enhancement measures and recommendations.

Within a period of 01 month from the date of inspection by TQPA team, the report shall be furnished to the Competent Authority (Nodal Authority) of the Administrative Department.

Role of Department:

The Department shall:

- Facilitate access to construction sites and project documents with help of executing agency(UPPWD/UPRNN/CD&S)
- Provide all relevant project drawings, specifications, BOQ, DPRs, etc.
- Coordinate with the executing contractor/consultant for necessary cooperation.
- Remunerate the Institution as per mutually agreed terms for TPQA services rendered.
- Consider TPQA reports for corrective actions during project execution.

3. Conflict of Interest:

The faculty members and personnel appointed specifically for this project shall at all times act in the best interests of the "Department" without regard to future work prospects, and shall strictly avoid conflict of interest with other assignments or their own personal interests. If during the period of this MoU, a conflict of interest arises for any reasons, the appointed faculty or personnel shall promptly disclose the same to the Department and seek its guidance.

3.1 Faculty not to benefit from Commissions, Discounts, etc.:

(a) The payment made to the Institute for services rendered under this MoU shall constitute the Institute's

sole payment in connection with this MoU and the Institute shall not accept for its own benefit any trade commission, discount or similar payment in connection with activities pursuant to this MoU or in the discharge of its obligations hereunder, and the Institute shall use its best efforts to ensure that the Personnel and agents similarly shall not receive any such additional payment.

(b) Further more, if the Institute, as part of the Services, has the responsibility of advising the "Department" on the procurement of goods, works or services, the Institute shall comply with the Department's applicable procurement guidelines, and shall at all times exercise such responsibility in the best interest of the "Department". Any discounts or commissions obtained by the institute in the exercise of such procurement responsibility shall be for the account of the Department unless otherwise mutually agreed in writing by the Parties.

3.2 Institute and Affiliates Not to Engage in Certain Activities:

The Institute agrees that, during and under the term of this MoU and after its termination, the faculty members specifically appointed by the Institute to provide the Services under this MoU and any entity affiliated with the Institute, shall be disqualified from providing goods, works or services (other than consulting services) resulting from or directly related to the Institute's Services for the preparation or implementation of the project.

3.3 Prohibition of Conflicting Activities:

The faculty members appointed by the Institute to perform the Services under this MoU, shall not engage, and the Institute shall use reasonable efforts to ensure that such faculty members do not engage, either directly or indirectly, in any business or professional activities that would conflict with the activities assigned to them under this MoU.

4. **Confidentiality**: Except with the prior written consent of the "Department", the Institute and the Personnel shall not at any time communicate to any person or entity any confidential information acquired in the course of the Services, nor shall the Institute and its Personnel make public the recommendations formulated in the course of, or as a result of, the Services.

5. **Payments to the Institute** : The Department shall provide honorarium/professional fees as mutually agreed upon based on the scope, size, and complexity of the project(Annexure attached) with maximum allowable fees as:

A. For the Bridge projects costing less than Rs 50.00 Cr = 0.35% of the Cost of Project .

B. For the Bridge projects costing Rs 50.00 Cr to 300 Cr = 0.35% of Rs 50.00 Cr + 0.25% of (Cost of project in Cr - Rs 50.00 Cr)

C. For the Bridge projects costing Rs 300.00 Cr to 500 Cr = 0.35% of Rs 50.00 Cr + 0.25% of (300 Cr - Rs 50.00 Cr) + 0.20% of (cost of project in Cr – 300 Cr.)

D. For the Bridge projects costing above 500 Cr = 0.35% of Rs 50.00 Cr + 0.25% of (300 Cr - Rs 50.00 Cr) + 0.20% (500 Cr – 300 Cr.) + 0.10% of (cost of project in Cr – 500 Cr.)

(a) The Institute shall raise an invoice when the payment becomes due as per the agreed milestone-based terms outlined in the MoU or work.

(b) Once a milestone is completed, the TPQA shall submit the requisite deliverables as specified in this MoU. The Department shall release the requisite payment upon acceptance of the deliverables. However, if the department fails to intimate acceptance of the deliverables or its objections thereto, within 30 days of receipt of it, the department shall release the payment to the institute without further delay.

(c) Final Payment : The final payment shall be made only after the final report and a final statement, identified as such, shall have been submitted by the institute and approved as satisfactory by the "Department". The Services shall be deemed completed and finally accepted by the "Department" and the final report and final statement shall be deemed approved by the "Department" as satisfactory ninety (90) calendar days after receipt of the final report and final statement by the "Department " unless the "Department", within such ninety (90) day period, gives written notice to the Institute specifying in detail deficiencies in the Services, the final report or final statement. The Institute shall thereupon promptly make any necessary corrections, and there after the foregoing process shall be repeated. Any amount, which the "Department" has paid or caused to be paid in accordance with this Clause in excess of the amounts actually payable in accordance with the provisions of this MoU, shall be reimbursed by the Institute to the "Department" within thirty (30) days after receipt by the Institute of notice thereof. Any such claim by the "Department" for reimbursement must be made within Nine (09) calendar months after receipt by the "Department" of a final report and a final statement approved by the "Department" in accordance with the above.

(d) If the deliverables submitted by the institute are found not to be within the agreed scope of work, the Department shall provide a written response clearly stating the specific reasons for non-acceptance within fifteen (15) working days of receipt of the deliverables. The Institute shall be provided an opportunity to clarify or rectify the deliverable within a mutually agreed-upon timeframe.

Until such reasons are formally communicated, the deliverables shall be deemed under review, and payment shall not be unreasonably withheld. Where feasible, pro-rata or milestone-based payments may be released for partially acceptable work.

This provision shall not prejudice the Department's right to levy any liquidated damages, where applicable, in accordance with the terms of this Agreement. Upon resubmission and acceptance of the revised deliverables, the pending payment shall be released promptly.

(h) In case of early termination of the MoU, the payment shall be made to the institute in accordance with the following terms, through mutual consultation and agreement:

(i) Assessment should be made about work done from the previous milestone (s), for which the payment is made or to be made till the date of the termination. The institute shall provide the details of persons who reasonably worked during this period with supporting documents. Based on such details, the remuneration shall be calculated based on the man month rate as specified.

(ii) A reasonable assessment of the reimbursable and miscellaneous expenses shall be made based on details furnished by the institute in this regard with supporting documents and based on the assessment of the work done and the respective rates as provided. Wherever such an assessment is difficult, the rates should be arrived at by calculating the amount on pro-rata basis. The total amount payable shall be the amount calculated as per (i) and (ii) above plus any applicable tax.

6. **Dispute Resolution:**

In Case, there be a dispute relating to any aspect of the TPQA, all the parties will resolve the dispute in a spirit of mutual respect and shared responsibility, failing which, the unresolved difference or disputes shall be referred to the arbitration by a distinguished authority agreed mutually by all parties and decision by that authority shall be final and binding.

7. **Force Majeure**

(a) For the purposes of this MoU, "Force Majeure" means an event which is beyond the reasonable control of a Party, is not foreseeable, is unavoidable and not brought about by or at the instance of the Party claiming to be affected by such events and which has caused the non-performance or delay in performance, and which makes a Party's performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible in the circumstances, and includes, but is not limited to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood or other extreme adverse weather conditions, strikes, lockouts or other industrial action (except where such strikes, lockouts or other industrial action are within the power of the Party invoking Force Majeure to prevent), confiscation or any other action by Government agencies.

(b) Force Majeure shall not include (i) any event which is caused by the negligence or intentional action of a Party or such party's agents or employees, nor (ii) any event which a diligent Party could reasonably have been expected both to take into account at the time of the conclusion of this MoU, and avoid or overcome in the carrying out of its obligations here under.

(c) Force Majeure shall not include insufficiency of funds or inability to make any payment required hereunder.

8. **Duration and Termination**

This MoU shall remain in force for a period of ___years from the date of signing, or until the completion of the said construction project, whichever is earlier. Either party may terminate this MoU with a written notice of 30 days, citing valid reasons.

9. General Provisions

This MoU does not constitute a legal partnership, agency, or joint venture.

Disputes, if any, shall be resolved amicably; otherwise, jurisdiction shall lie with courts located at .....

Any amendment to this MoU shall be in writing and signed by both parties.

Neither Party, nor any of their affiliates nor their or their affiliates respective directors, officers, employees, subcontractors or agents shall be liable to the other Party for any special, incidental, indirect or consequential damages (including, but not limited to, contract, negligence and tort liability) in connection with or arising out of this MoU.

Any Information, Products, Materials, Services, Intellectual Property, Other Property or Rights, granted or provided or generated by **[Name of Engineering College/Institute]** pursuant to this MoU are on an As Is Where Is basis.

[Name of Engineering College/Institute] makes no warranties of any kind either express or implied, to the Department or any third party, as to any matter including, but not limited to, warranty of fitness for

particular purpose, or merchantability, exclusivity or results obtained from use.

IN WITNESS WHEREOF, the undersigned have executed this MoU on the date mentioned above:

Witness 1

Witness 2

- **For [Name of Department]**
  Name:
  Designation:
  Signature:
  Date:
  Seal:

- **For [Name of Engineering College]**
  Name:
  Designation:
  Signature:
  Date:
  Seal:

CURRICULUM VITAE (CV) FOR PROPOSED PROFESSIONAL STAFF

1. Proposed Position:

2. Name of Institute:

3.

4. Name of Staff:
[Insert full name]:

5. Date of Birth:

6. Nationality:

7. Education:
[Indicate college/university and other specialized education of Faculty, giving names of institutions, degrees obtained, and dates of obtainment]:

8. Membership of Professional Associations:

9. Other Training:

10. Work Experience:
[List of work where Faculty has worked in the last ten years]:

11. Languages [For each language indicate proficiency: good, fair, or poor in speaking, reading, and writing]:

12. Employment Record:
[Starting with present position, list in reverse order every employment held by Faculty member since graduation, giving for each employment (see format here below): dates of employment, name of employing organization, positions held.]:

From [Year]: To Year:

Employer: Positions

held:

13. Detailed Tasks Assigned
[List all tasks to be performed under this Assignment/job]

14. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned [Among the Assignment/jobs in which the staff has been involved, indicate the following information for those Assignment/jobs that best illustrate staff capability to handle the tasks listed under point 12.]

Name of Assignment/job or project:
Year:
Location:
Employer:
Main project features:
Positions held:
Activities performed:

15. Certification: I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.

Date: [Signature of staff member or authorized representative of the staff]
Place:

[Full name of authorized representative]:

संलग्नक-3

(For Water Supply/Sewer Pipeline Projects)

Memorandum of Understanding

between

Department of.....,GoUP

And

(Name of TPQA Institute)

This Memorandum of Understanding (MoU) is entered into on this __day of _____, 2026, by and between:

[Name of Department.....], having its office at [Full Address], hereinafter referred to as the *"Department"*, which expression shall, unless excluded by or repugnant to the context, mean and include its successors and assigns. **AND [Name of Engineering College/Institute]**, having its campus at [Full Address], hereinafter referred to as the *"Institute"*, which expression shall, unless excluded by or repugnant to the context, mean and include its successors and assigns.

Collectively referred to as the *"Parties"*.

Introduction :

Third Party Quality Audit (TPQA) is a review by an independent entity (A separate organization / group of experts) of how well the key areas of a project quality plan are being followed and whether it's effective in getting the quality results originally envisaged.

Department of ....., GoUP intends that periodic Quality Auditing is carried out by a third-party to enable the Department to assess critically the in-place quality of the project. The audit will be comprehensive, and include examination of the quality of work executed and services carried out, compliance of works with the technical specifications and standards prescribed in the contract, compliance of social and environmental safeguards, compliance of safety requirements and furnishing of recommendations for improvements in the quality of the project and project implementation as a whole.

Department of ....., GoUP intends that Indian Institute of Technology(IIT), .../National Institute of Technology(NIT), Prayagraj /Rajkiya Engineering College/ Govt Engineering Colleges Organizations hereinafter to be called Third Party Quality Audit (TPQA) to assist it in auditing the quality of the project. The TPQA shall include a team of qualified and experienced technical and other experts to be able to satisfactorily fulfill the objectives of the Audit.

The Collaboration will be established within the principles set out in the following sections :

1. **Objective:**

The objective of this MoU is to establish a formal collaboration between the Department and the Institute for conducting **Third Party Quality Audit (TPQA)** of civil and MEP works executed under the **[name of the project]** in order to

(i) Verify as may be mutually agreed from time to time whether the quality of the Works is consistent with contract conditions as well as technical specifications including compliance with the social and environmental safeguards, occupational health and safety requirements by independent assessment/audit of quality of works at various stages of construction, and

(ii) Identify and recommend, without obligation, potential improvements to achieve the quality, subject to mutual agreement on scope and feasibility.

2. Functions of the Parties:

Role of Institute(TPQA): The TPQA shall endeavor to clearly understand the scope and complexities of the project and where mutually agreed, shall visit the project site to acquaint themselves with the ground conditions. The TPQA may undertake, but is not limited to the following tasks subject to the prevailing norms of the Institute and as mutually agreed upon with the Department.

(i) The TPQA may verify the adequacy of the Contractor's field laboratories, plant, equipment and personnel and general fitness for purpose of such inputs, including the accuracy / calibration of testing equipment used for measurement.

(ii) The TPQA may review the Contractor's working practices such as material receipt, storing, consumption procedures, material testing, construction methods, and documentation system to assess whether sound practices are being employed to achieve quality.

(iii) The TPQA may review the degree of quality control exercised during the construction by the Contractor (tests, number, frequency, approach & timing etc.) and documentation (QC registers, test reports, observations of supervisory staff, compliance etc.) to assess whether the same is compliant to specified technical specifications.

(iv) The TPQA may review the Contractor's plan and actual practices with respect to social and environmental safeguards, safety measures and working conditions.

(v) The TPQA may verify whether the quality of work is in accordance with contract specifications. The TPQA may prepare Inspection Test Plans (ITPs), to be approved by the Department that elaborates the frequency and method for performing field inspections. The formats to be used in this assessment shall be provided in the Inspection Report.

(vii) The TPQA may audit and assess the quality control practices and documentation thereof.

(viii) The TPQA may under take inspections on a sample basis with prior intimation and approval of the Engineer-in-Charge to verify actual compliance with previously identified quality enhancement measures and recommendations.

Within a period of 01 month from the date of inspection by TQPA team, the report shall be furnished to the Competent Authority (Nodal Authority) of the Administrative Department.

Role of Department:

The Department shall:

- Facilitate access to construction sites and project documents with help of executing agency(UPPWD/UPRNN/CD&S)
- Provide all relevant project drawings, specifications, BOQ, DPRs, etc.
- Coordinate with the executing contractor/consultant for necessary cooperation.
- Remunerate the Institution as per mutually agreed terms for TPQA services rendered.
- Consider TPQA reports for corrective actions during project execution.

3. Conflict of Interest:

The faculty members and personnel appointed specifically for this project shall at all times act in the best interests of the "Department" without regard to future work prospects, and shall strictly avoid conflict of interest with other assignments or their own personal interests. If during the period of this MoU, a conflict of interest arises for any reasons, the appointed faculty or personnel shall promptly disclose the same to the Department and seek its guidance.

3.1 Faculty not to benefit from Commissions, Discounts, etc.:

(a) The payment made to the Institute for services rendered under this MoU shall constitute the Institute's

sole payment in connection with this MoU and the Institute shall not accept for its own benefit any trade commission, discount or similar payment in connection with activities pursuant to this MoU or in the discharge of its obligations hereunder, and the Institute shall use its best efforts to ensure that the Personnel and agents similarly shall not receive any such additional payment.

(b) Further more, if the Institute, as part of the Services, has the responsibility of advising the "Department" on the procurement of goods, works or services, the Institute shall comply with the Department's applicable procurement guidelines, and shall at all times exercise such responsibility in the best interest of the "Department". Any discounts or commissions obtained by the institute in the exercise of such procurement responsibility shall be for the account of the Department unless otherwise mutually agreed in writing by the Parties.

3.2 Institute and Affiliates Not to Engage in Certain Activities:

The Institute agrees that, during and under the term of this MoU and after its termination, the faculty members specifically appointed by the Institute to provide the Services under this MoU and any entity affiliated with the Institute, shall be disqualified from providing goods, works or services (other than consulting services) resulting from or directly related to the Institute's Services for the preparation or implementation of the project.

3.3 Prohibition of Conflicting Activities:

The faculty members appointed by the Institute to perform the Services under this MoU, shall not engage, and the Institute shall use reasonable efforts to ensure that such faculty members do not engage, either directly or indirectly, in any business or professional activities that would conflict with the activities assigned to them under this MoU.

4. **Confidentiality**: Except with the prior written consent of the "Department", the Institute and the Personnel shall not at any time communicate to any person or entity any confidential information acquired in the course of the Services, nor shall the Institute and its Personnel make public the recommendations formulated in the course of, or as a result of, the Services.

5. **Payments to the Institute** : The Department shall provide honorarium/professional fees as mutually agreed upon based on the scope, size, and complexity of the project(Annexure attached) with maximum allowable fees as:

A. For the Water Supply /Sewer Pipeline Projects costing less than Rs 50.00 Cr = 0.30% of the Cost of Project .

B. For the Water Supply/Sewer Pipeline Projects costing Rs 50.00 Cr to 300 Cr = 0.30% of Rs 50.00 Cr + 0.20% of (Cost of project in Cr - Rs 50.00 Cr)

C. For the Water Supply/Sewer Pipeline Projects costing Rs 300.00 Cr to 500 Cr = 0.30% of Rs 50.00 Cr + 0.20% of (300 Cr - Rs 50.00 Cr) + 0.15% of (cost of project in Cr – 300 Cr.)

D. For the Water Supply/Sewer Pipeline Projects costing above 500 Cr = 0.30% of Rs 50.00 Cr + 0.20% of (300 Cr - Rs 50.00 Cr) + 0.15% (500 Cr – 300 Cr.) + 0.10% of (cost of project in Cr – 500 Cr.)

(a) The Institute shall raise an invoice when the payment becomes due as per the agreed milestone-based terms outlined in the MoU or work.

(b) Once a milestone is completed, the TPQA shall submit the requisite deliverables as specified in this MoU. The Department shall release the requisite payment upon acceptance of the deliverables. However, if the department fails to intimate acceptance of the deliverables or its objections thereto, within 30 days of receipt of it, the department shall release the payment to the institute without further delay.

(c) Final Payment : The final payment shall be made only after the final report and a final statement, identified as such, shall have been submitted by the institute and approved as satisfactory by the "Department". The Services shall be deemed completed and finally accepted by the "Department" and the final report and final statement shall be deemed approved by the "Department" as satisfactory ninety (90) calendar days after receipt of the final report and final statement by the "Department " unless the "Department", within such ninety (90) day period, gives written notice to the Institute specifying in detail deficiencies in the Services, the final report or final statement. The Institute shall thereupon promptly make any necessary corrections, and there after the foregoing process shall be repeated. Any amount, which the "Department" has paid or caused to be paid in accordance with this Clause in excess of the amounts actually payable in accordance with the provisions of this MoU, shall be reimbursed by the Institute to the "Department" within thirty (30) days after receipt by the Institute of notice thereof. Any such claim by the "Department" for reimbursement must be made within Nine (09) calendar months after receipt by the "Department" of a final report and a final statement approved by the "Department" in accordance with the above.

(d) If the deliverables submitted by the institute are found not to be within the agreed scope of work, the Department shall provide a written response clearly stating the specific reasons for non-acceptance within fifteen (15) working days of receipt of the deliverables. The Institute shall be provided an opportunity to clarify or rectify the deliverable within a mutually agreed-upon timeframe.

Until such reasons are formally communicated, the deliverables shall be deemed under review, and payment shall not be unreasonably withheld. Where feasible, pro-rata or milestone-based payments may be released for partially acceptable work.

This provision shall not prejudice the Department's right to levy any liquidated damages, where applicable, in accordance with the terms of this Agreement. Upon resubmission and acceptance of the revised deliverables, the pending payment shall be released promptly.

(h) In case of early termination of the MoU, the payment shall be made to the institute in accordance with the following terms, through mutual consultation and agreement:

(i) Assessment should be made about work done from the previous milestone (s), for which the payment is made or to be made till the date of the termination. The institute shall provide the details of persons who reasonably worked during this period with supporting documents. Based on such details, the remuneration shall be calculated based on the man month rate as specified.

(ii) A reasonable assessment of the reimbursable and miscellaneous expenses shall be made based on details furnished by the institute in this regard with supporting documents and based on the assessment of the work done and the respective rates as provided. Wherever such an assessment is difficult, the rates should be arrived at by calculating the amount on pro-rata basis. The total

amount payable shall be the amount calculated as per (i) and (ii) above plus any applicable tax.

6. **Dispute Resolution:**

In Case, there be a dispute relating to any aspect of the TPQA, all the parties will resolve the dispute in a spirit of mutual respect and shared responsibility, failing which, the unresolved difference or disputes shall be referred to the arbitration by a distinguished authority agreed mutually by all parties and decision by that authority shall be final and binding.

7. **Force Majeure**

(a) For the purposes of this MoU, "Force Majeure" means an event which is beyond the reasonable control of a Party, is not foreseeable, is unavoidable and not brought about by or at the instance of the Party claiming to be affected by such events and which has caused the non-performance or delay in performance, and which makes a Party's performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible in the circumstances, and includes, but is not limited to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood or other extreme adverse weather conditions, strikes, lockouts or other industrial action (except where such strikes, lockouts or other industrial action are within the power of the Party invoking Force Majeure to prevent), confiscation or any other action by Government agencies.

(b) Force Majeure shall not include (i) any event which is caused by the negligence or intentional action of a Party or such party's agents or employees, nor (ii) any event which a diligent Party could reasonably have been expected both to take into account at the time of the conclusion of this MoU, and avoid or overcome in the carrying out of its obligations here under.

(c) Force Majeure shall not include insufficiency of funds or inability to make any payment required hereunder.

8. **Duration and Termination**

This MoU shall remain in force for a period of ___years from the date of signing, or until the completion of the said construction project, whichever is earlier. Either party may terminate this MoU with a written notice of 30 days, citing valid reasons.

9. General Provisions

This MoU does not constitute a legal partnership, agency, or joint venture.

Disputes, if any, shall be resolved amicably; otherwise, jurisdiction shall lie with courts located at .....

Any amendment to this MoU shall be in writing and signed by both parties.

Neither Party, nor any of their affiliates nor their or their affiliates respective directors, officers, employees, subcontractors or agents shall be liable to the other Party for any special, incidental, indirect or consequential damages (including, but not limited to, contract, negligence and tort liability) in connection with or arising out of this MoU.

Any Information, Products, Materials, Services, Intellectual Property, Other Property or Rights, granted or provided or generated by **[Name of Engineering College/Institute]** pursuant to this MoU are on an As Is Where Is basis.

[Name of Engineering College/Institute] makes no warranties of any kind either express or implied, to the Department or any third party, as to any matter including, but not limited to, warranty of fitness for particular purpose, or merchantability, exclusivity or results obtained from use.

IN WITNESS WHEREOF, the undersigned have executed this MoU on the date mentioned above:

Witness 1

Witness 2

- **For [Name of Department]**
  Name:
  Designation:
  Signature:
  Date:
  Seal:

- **For [Name of Engineering College]**
  Name:
  Designation:
  Signature:
  Date:
  Seal:

CURRICULUM VITAE (CV) FOR PROPOSED PROFESSIONAL STAFF

1. Proposed Position:

2. Name of Institute:

3.

4. Name of Staff:
[Insert full name]:

5. Date of Birth:

6. Nationality:

7. Education:
[Indicate college/university and other specialized education of Faculty, giving names of institutions, degrees obtained, and dates of obtainment]:

8. Membership of Professional Associations:

9. Other Training:

10. Work Experience:
[List of work where Faculty has worked in the last ten years]:

11. Languages [For each language indicate proficiency: good, fair, or poor in speaking, reading, and writing]:

12. Employment Record:
[Starting with present position, list in reverse order every employment held by Faculty member since graduation, giving for each employment (see format here below): dates of employment, name of employing organization, positions held.]:

From [Year]: To Year:

Employer: Positions

held:

13. Detailed Tasks Assigned
[List all tasks to be performed under this Assignment/job]

14. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned [Among the Assignment/jobs in which the staff has been involved, indicate the following information for those Assignment/jobs that best illustrate staff capability to handle the tasks listed under point 12.]

Name of Assignment/job or project:
Year:
Location:
Employer:
Main project features:
Positions held:
Activities performed:

15. Certification: I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.

Date: [Signature of staff member or authorized representative of the staff]
Place:

[Full name of authorized representative]:

संलग्नक-4

Third Party Quality Audit Checklist for the Road Works

1.	PARTICULARS OF PROJECT	Details/Remarks
a	Name of Project & Location	
b	Name of Contractor	
c	Date of Commencement of the projects	
d	Schedule date of completion as agreement	
e	Expected date of completion	
f	Inspecting Officer (TPQA) (Name and Designation	
g	Officers (UPPWD) and representative of contractor present during inspection	
h	Percentage progress at the time of inspection vis-a-vis expected as per contract and reasons for delay, if any	
2.	**QUALITY CONTROL MEASURES**	
a	Whether copy of contract document/ Specifications (UPPWD/MoRT&H) available at site	
b	Whether List of approved materials available at site	
c	Is Field Laboratory/Testing facilities well equipped to check conformance as per contract document?	
d	Are Test Register (mandatory tests carried out at stipulated frequency as per contract document) and Inspection Register (by officers of UPPWD/State Govt. Officers) maintained compliance.	
e	Frequency of visit by TPQA and Action taken report on previous report	
f	Has water been tested subsequently as per requirement and approved by Engineer-in-Charge before construction?	
g	Is RMC being used in work, if yes, detail of control & checks done at plant of site.	
h	Specific control on RCC/CC/PQC work like centering/ shuttering/proportioning with boxes; mixing by full bag capacity hopper fed mixer; control of slump; place/ compaction with vibrator.	

3	**SITE INSPECTION STAGES** 1. Start level (Work Plan, Checking of Alignment with emphasis on Road Safety, L Section, Cross Section, Design, Mix Design and Test Sections) 2. 25% progress 3. 50% progress 4. 75% progress 5. On completion of work (Including after completion of signage, Road Marking and other Road Safety aspects) The intimation with respect to the stage to the TPQA agency shall be the responsibility of the administrative department to whom the road belongs.			
4. CHECK LIST FOR SITE INSPECTION BY TPQA				
		Whether in progress (Yes/No)	**Whether Inspected (Yes/No) If yes, then test result and photographs**	**Comments.**
	Road Work			
a)	(i) Earth Work in embankment (ii) Subgrade (iii) Shoulders		If tested as per mandatory test along with their results. 1. Proctor density & OMC 2. Field density 3. Atterberg Limits 4. CBR 1. Field density	As per MoRT&H Specifications For Road And Bridge Works (5th Revision) 2013- Chapter 900
b)	Granular layers (i) GSB (ii) WMM		1. Gradation 2. Atterberg limits 3. Moisture content prior to compaction 4. Density of compacted layer 5. Deleterious constituents 6. CBR 1. Aggregate Impact Value 2. Grading of aggregate 3. Combined Flakiness and Elongation Indices 4. Atterberg limits of portion of aggregate passing 425 micron sieve 5. Density of compacted layer	
c)	Bituminous layers (i) PC (ii) DBM/BC		1. Quality of binder 2. Aggregate Impact Value or Los Angeles Abrasion Value 3. Combined Flakiness and Elongation Indices 4. Stripping value 5. Water absorption of aggregates 6. Water Sensitivity of mix 7. Grading of aggregates 8. Soundness (Magnesium Sulphate and Sodium Sulphate) 9. Polished stone value 10. Temperature of binder at application 11. Binder content 12. Percentage of fractured faces 1. Quality of binder 2. Aggregate Impact Value/Los Angeles Abrasion Value 3. Flakiness and Elongation Indices 4. Soundness test (Sodium or Magnesium Sulphate test) 5. Water absorption of aggregates 6. Sand equivalent test 7. Plasticity Index 8. Polished stone value 9. Percentage of fractured face 10. Mix grading 11. Stability and voids analysis of mix, flow value (By Marshall Mould) including theoretical maximum specific gravity of loose mix 12. Moisture Susceptibility of mix (AASHTO T283) 13. Temperature of binder in boiler, aggregate in dryer and mix at the time of laying and compaction 14. Binder content 15. Rate of spread of mix material 16. Density of Compacted layer	

d)	CC/PQC		1)	Levels, alignment and texture			
				i) Level tolerance			
				ii) Width of pavement and position of paving edges			
				iii) Pavement thickness			
				iv) Alignment of joints, widths, depth of dowel grooves			
				v) Surface regularity both transversely and longitudinally			
				vi) Alignment of dowel bars and their accuracy/tie bars			
				vii) Texture depth			
			2)	Quality of materials and concrete shall be as under:			
				1)Cement Physical and chemical Tests		IS:269 IS:455 IS:1489 IS:8112 IS:12269	
				2)Coarse and Fine Aggregates	i) Gradation	IS:2386	
					ii)Deleterious constituents	IS:2386 (Pt. 2)	
					iii)Water absorption	IS:2386 (Pt. 3)	
				3)Coarse Aggregate	i) Los Angeles Abrasion value or Aggregate Impact test	IS:2386 (Pt. 4)	
					ii)Soundness	IS:2386 (Pt. 5)	
					iii)Alkali aggregate reactivity	IS:2386 (Pt. 7) IS:456	
				4)Water	Chemical Tests	IS:2386	
				5)Concrete	i) Strength of concrete	IS:516	
					ii) Core strength on hardened concrete	IS:516	
					iii)Workability of fresh concrete-Slump Test	IS:1199	
					iv)Thickness determination		
					v) Thickness measurement for trial length		
					vi) Verification of level of string line in the case of slip form paving and steel forms in the case of fixed form paving		

Note:-

1- In case of any other specification, Chapter 900 of MoRT&H Specifications For Road And Bridge Works (5* Revision) 2013 should be referred and followed.

2- In case of Village Roads, MORD specifications should be referred and followed.

3- The TPQA Institute may indicate, on its own, any such matter which is in the interest of work and may incorporate it in its procedure of testing.

Third Party Quality Audit Checklist for the Bridge Works

1.	**PARTICULARS OF PROJECT**	-	**Details/Remarks**
a	Name of Project & Location	-	
b	Name of Contractor	-	
c	Name of Executive Engineer(UPPWD)/Project Manger(UPSBC)	-	
d	Date of Commencement of the projects	-	
e	Schedule date of completion as agreement	-	
f	Expected date of completion	-	
g	Inspecting Officer (TPQA) (Name and Designation	-	
h	Officers (UPPWD)/UPSBC representative present during inspection	-	
i	Percentage progress at the time of inspection vis-a-vis expected as per contract and reasons for delay, if any	-	
2.	**QUALITY CONTROL MEASURES**	-	
a	Whether copy of contract document/ specifications available at site (UPPWD/Mord/Morth)	-	
b	Whether List of approved materials/ISI marked available at site	-	
c	Is Field Laboratory/Testing facilities well equipped to check conformance as per contract document?	-	
d	Are Cement register & Steel register maintained & checked at site periodically by UPPWD/UPSBC officials?	-	
e	Are Test registers (mandatory tests carried- out at stipulated frequency as per contract document) and Inspection Register (by officers of UPPWD State Govt. Officers)/ UPSBC maintained at site requiring the compliance.	-	
f	Frequency of visit by TPQA and Action taken report on previous report	-	
g	Is soil investigation done? (Give brief details)	-	
h	Suitability of water for construction	-	
i	What is the source of water?	-	
ii	Has water been tested subsequently as per requirement and approved by Engineer- in-Charge before construction?	-	
i	Is RMC being used in work, if yes, detail of control & checks done at plant of site	-	

	SITE INSPECTION -(Checklist for each individual Bridge Site)			
		Whether in progress (Yes/No)	Whether Inspected (Yes/No) If yes, then test result and photographs	Comments
3	Bridge Work			
a)	Earth Work		1.Gradation test 2.OMC test 3.Compaction test 4.CBR test	
b)	Cement		If tested as per mandatory test along with their results 1. Standard Consistency test 2. Setting time test 3. Strength Test 4. Soundness test 5. Fineness test etc	
c)	Aggregate		If tested as per mandatory tests along with their results 1. Strength test 2. Grading 3. Specific gravity 4. Fineness modules 5. Soundness etc	
d)	Concrete work		If tested as per mandatory tests (Workability test/setting time compressive strength cubic tests etc.) their results.	
e)	Coarse sand		Fineness modulus	
f)	RCC work		None destructive tests to be carried out (1) Rebound Hammer Test (ii) Ultrasonic Pulse velocity test	
g)	Brick Work/AAC Block		If tested as per mandatory tests their results.	
h)	Sample taken to initiate duly collected in presences of Contactor PMC/AE & UPPWD i) Steel (ii) Cubes (iii) Bricks/AAC Other Material (iv) Cement			
4	SITE INSPECTION OF WORKMANSHIP ASPECTS			

5 **Other Generel observations**

Sl. no.	Stage/Area	Detailed Third-Party Inspection Checklist
5.1	Third Party Agency Credentials	Will be decided by Govt. level
5.2	Pre-Construction Review	Review approved drawings, GAD, structural design basis report, soil investigation report, method statements, QA/QC plan
5.3	Survey & Setting Out	Check benchmarks, centerline alignment, pier/abutment coordinates, levels using total station
5.4	Foundation Open/Pile/Well	Verify excavation depth, founding strata, dewatering, reinforcement cage, pile/well dimensions, tremie concreting
5.5	Pile Testing	Witness pile load test / integrity test; review test results

5.6	Reinforcement Works	Check bar dia/spacing, lapping length, anchorage, cover blocks, tying, cleanliness
5.7	Formwork & Staging	Inspect shuttering alignment, rigidity, oiling, staging safety and load capacity
5.8	Concrete Production	Verify batching plant calibration, mix design approval, material quality, slump test, temperature control
5.9	Concrete Placement	Check pouring sequence, vibration, cold joints, finishing, curing arrangement
5.10	Cube Testing	Witness sampling, curing, and testing of cubes
5.11	Substructure Construction	Inspect piers, abutments, wing walls for alignment, verticality, dimensions, surface finish
5.12	Bearings Installation	Verify bearing type, capacity, orientation, level, and seating
5.13	Superstructure Girder Casting	Check mould dimensions, reinforcement, prestressing ducts, camber
5.14	Prestressing Operations	Verify jack calibration, stressing sequence, elongation records, anchorage seating
5.15	Grouting of Ducts	Inspect grout mix, pressure, venting, and sealing
5.16	Girder Launching/ Erection	Review erection method, lifting points, stability, alignment
5.17	Deck Slab & Ch Wearing Coat	Check slab thickness, reinforcement, drainage slope, wearing coat finish
5.18	Expansion Joints & Railings	Inspect installation, alignment, anchorage, water tightness
5.19	Approach Slabs & Protection Works	Verify backfilling, compaction, pitching, drainage works
5.20	Safety Compliance	Check Personal protective equipment (PPE) usage, scaffolding safety, traffic management
5.21	Geometric Control	Verify span, camber, deck profile, cross fall, clearances
5.22	Load Testing (if required)	Witness proof/load test and instrumentation
5.23	Documentation & Records	Review test registers, inspection logs, NCRs, corrective actions
5.24	Final Certification	Joint inspection and final quality certification

Stage No.	Stage of Work	Major Activities Included	Key Inspection Checkpoints	Reference (Indicative)
Stage 1	**Pre-Construction & Planning**	Agency credential verification; review of drawings/GAD/design; soil investigation; survey & setting out; QA/QC and safety planning	Approval of designs by competent authority; benchmark and alignment accuracy; completeness of QA/QC plan; safety preparedness	IRC:5, IRC:6, IRC:78, IRC:SP:13, MoRTH Specs
Stage 2	**Foundation Works**	Open/pile/well foundation; pile testing; reinforcement; formwork; concrete production & placement; cube testing	Founding level and strata verification; pile verticality & load test compliance; reinforcement spacing & cover; slump and cube strength results	IRC:78, IRC:112, MoRTH Specs
Stage 3	**Substructure Works**	Piers, abutments, wing walls; bearing installation; geometric control; safety compliance	Alignment and plumb tolerance; dimensional checks; bearing level & seating; workmanship quality; PPE and staging safety	IRC:83, MoRTH Specs, Safety Code
Stage 4	**Superstructure Works**	Girder casting; prestressing; duct grouting; girder erection; deck slab; expansion joints & railings	Camber and mould accuracy; prestressing elongation records; proper duct grouting; erection alignment; slab thickness & finish	IRC:112, IRC:SP:69, MoRTH Specs
Stage 5	**Finishing & Certification**	Approach slabs; protection works; geometric verification; load testing; documentation; final certification	Compaction of approaches; deck profile and clearances; load test deflection limits; completeness of records; final joint inspection	IRC:SP:51, MoRTH QC Handbook

संलग्नक-6

Checklist for Third Party Quality Audit (TPQA) for Water Supply & Sewerage Projects being executed by U.P. Jal Nigam (Gramin)

Works proposed under water supply and sewerage projects can be broadly categorized into following components:

S.No.	Water Supply Projects	Sewerage Projects	Cost Weightage	Checklist for TPQA
1	**Building Works** (Intake well & Water Treatment Plant for surface source projects and Over Head Tank & Clear Water Reservoir. Pump house, Staff quarter, SCADA Room, Meter Room, Panel Room, Campus development etc. are common for surface source and ground water-based projects)	Building Works (Sewage Treatment Plant, Sewage Pumping Station, Pump house, Staff quarter, SCADA Room, Meter Room, Panel Room, Campus development etc)	25% - 35%	Similar to Building Works
2	Water Supply Pipeline and house connection	Sewer Pipeline and house connection	40% - 50%	Checklist annexed
3	Road Cutting and restoration	Road Cutting and restoration	15% - 20%	Similar to Checklist annexed
4	Electrical & Mechnical Works (Tube well, Pumping plant, Panel, Cable, Piping Flow meter, valves, fittings, Electrical, Mechanical & Instrumentation equipment, SCADA etc)	Electrical & Mechnical Works (Electrical Mechanical & Instrumentation, equipment, Pumping, Plant, Cable, Piping, Flow meter, Valves fittings etc)	10% - 20%	Checklist annexed

Checklist for Third Party Quality Audit (TPQA)

Sl.	Description	Comment of TPQA
1.0	**Particulars of Project**	
1.1 (a)	Name of Project/ Code	
(b)	Sanctioned Cost	
(c)	Administrative and Financial GO no & date	
1.2	Description/ Scope of work	
1.3 (a)	Name of Implementing Agency	
(b)	Name of Construction Agency/ contractor	
1.4 (a)	Contract Agreement no.	
(b)	Contract Value	
(c)	Scheduled date of Start	
(d)	Scheduled date of Completion	
(e)	Revised Date of Completion with reason	
1.5 (a)	Name of Third-Party Quality Audit	
(b)	Inspecting Officer (Name and Designation)	
(c)	Officers (Implementing Agency) and Representative of contractor present during inspection (Name and Designation)	
(d)	Date of Inspection and number	
(e)	Overall Progress (in %age) at the time of inspection vis-à-vis target as per contract milestone and reasons for delay, if any.	
(f)	Financial Progress	
2.0	**Quality Control Measures**	
2.1	Is Site equipped with:	
(a)	Copy of Approved DPR	
(b)	Copy of Contract Agreement	
(c)	Copy of Approved Design & Drawings of project components.	
(d)	List of approved make for Pipes (HDPE, DI, RCC, PSC, PCCP, MS), Valves, Fittings, Electrical and Mechanical equipment etc, being used in project.	
(e)	Factory test report (Review/ Witness/ Perform) of Pipes, Valves, Flow meter, Electrical and Mechanical equipment etc, being used in project.	
(f)	Is Field Laboratory/Testing facilities well equipped to perform mandatory test?	
(g)	Are Test Register (mandatory tests carried out at stipulated frequency as per contract document) maintained at site?	
(h)	Are Inspection Register maintained at site and compliance on observations mentioned by inspecting officer is ensured.	
(i)	Frequency of visits by TPQA and Action taken report on previous report	
3.0	**Activities to ensure Quality Control**	
3.1 (A)	**Water Supply Pipe Line Works Including House Connections**	

Sl.	Description	Comment of TPQA
(a)	Whether Water Supply Pipe Line listed below are laid as per approved hydraulic design and drawing?	
(i)	Raw water mains from intake well	
(ii)	Clear water mains from WTP	
(iii)	Rising Main from Tubewells	
(iv)	Water Distribution Network pipeline	
(b)	Whether pipeline is laid at desired depth (1m cover)?	
(c)	Whether specials used for jointing are as per Contract Specifications?	
(d)	Whether Sluice Valve/Air Valve/Scour Valve are installed as per approved drawing as per approved drawings?	
(e)	Whether valve chambers are constructed as per approved type design?	
(f)	Whether Hydrostatic Testing of Pipe line is being performed?	
(g)	Whether Water Supply House Connections are provided as per approved type design?	
(h)	Whether chlorinator for disinfection is installed and is functional?	
(i)	Whether test report of water (tubewell/treated water of WTP) is available and conforms to the permissible limits as per BIS standards?	
(j)	Whether as-built drawings are prepared and submitted?	
(k)	Whether Safety measures (personal protection equipment for workers, barricading, caution tape, diversion/signage board etc.) are taken at Site?	
(l)	Whether Road Restoration done as per Contract specification?	
(m)	Any other point which TPQA agency need to mention	
3.1(B)	**Sewer Line Works including House Connections**	
(a)	Whether gradient in Sewer Line is provided as per approved hydraulic design & drawing?	
(b)	Whether invert levels are checked and recorded through level books?	
(c)	Whether Bedding beneath the sewer pipe is provided as per approved design?	
(d)	Whether Manhole are constructed as per approved drawings & end site requirements?	
(e)	Whether Road Restoration done as per Contract specification?	
(f)	Whether Sewer House Connection are provided as per approved type design?	
(g)	Whether Safety measures (personal protection equipment for workers, barricading, caution tape, diversion/signage board etc.) are taken at Site?	
(h)	Whether Rising Main from Sewage Pumping Station is laid as per approved hydraulic design & drawing?	

Sl.	Description	Comment of TPQA
(i)	Any other point which TPQA agency need to mention	
3.2	**Electrical & Mechanical Works**	
(a)	Whether E&M equipment procured at site conforms to Design Calculation/ Data Sheet/ QAP?	
(b)	Whether Factory Inspection Report of Major Electrical/ Mechanical Equipment's available at Site	
(c)	Whether installation of E&M equipment is as per approved Installation Drawings and SOP available at Site?	
(d)	Quality of Workmanship during Installation of:	
i	Pump, Motor	
ii	Electrical Panel/Transformer/DG Set	
iii	Piping	
iv	Cable	
v	Flowmeter	
(e)	Automation/ SCADA	
(f)	Whether DG set trial run and load test are conducted and documented?	
(g)	Whether energy efficiency certificates of pumps are verified?	
(h)	Whether SCADA functional testing and integration report is available?	
(i)	**Any other point which TPQA agency need to mention**	

Infrastructure work to be checked by TPQA

Visit Stages

1. Foundation level of OHT.
2. Staging of OHT at plinth level.
3. Bottom Dome of OHT.
4. Container and Top Dome of OHT.
5. Commissioning of OHT.

The stages as defined above are with respect to the Over Head Tank (OHT). Along with the stage visit of OHT, other components of the project shall also be inspected during the visit.

The intimation with respect to the stage to the TPQA agency shall be the responsibility of the administrative department.

Sl. No.	Project Type	Project Component	Whether in Progress (Yes/No)	Whether inspected (Yes/No) If yes, then Test results and photographs	Comments
1	Water supply Project	Surface Source Based Projects			
		Intake well			
		Raw Water Mains			
		Water Treatment Plant			
		Clear Water Reservoir cum Pump house			
		Clear Water Mains			
		Zonal Reservoir cum Pump House			
		Ground Water Based Projects			
		Tubewell			
		Pumphouse for Tubewell			
		Rising Main			
		Common Works in both Surface and Ground Water Based Projects			
		Over Head Tank			
		Distribution Pipeline			
		Water Supply House Connection			
		Road Restoration			
		Staff quarter			

SL No.	Project Type	Project Component	Whether in Progress (Yes/No)	Whether inspected (Yes/No) If yes, then Test results and photographs	Comments
		SCADA Room			
		Meter Room			
		Panel Room			
		Campus Development (Road, campus lighting, drain, Horticulture etc.)			
		Rain Water Harvesting Unit			
2	Sewerage Project	Sewerage Treatment Plant			
		Main Pumping Station			
		Intermediate Pumping Station			
		Sewage Pumping Station			
		Sewer Line			
		Sewer House Connecting Chamber			
		Sewer Connecting Chamber			
		Rising Main			
		Manholes			
		Road restoration			
		Staff Quarter			
		Scada Room			
		Meter Room			
		Panel Room			
		Campus Development (Road, campus lighting, drain, Horticulture etc.)			
		Rain Water Harvesting			
		Treatment Effluent Line			

SITE INSPECTION STAGES

1. Start level (upon completion of design and drawing work)
2. Physical progress of the project is 25% progress
3. Physical progress of the project is 50% progress
4. Physical progress of the project is 75% progress
5. On completion of work. The intimation with respect to the stage to the TPQA agency shall be the responsibility of the administrative department to whom the project belongs.